

ABSTRACT OF THE DISCLOSURE

The mobile phone can connect to a preferred connected communication system A and a non-preferred communication system B. When the mobile phone connects to system A, if the detected received electric field intensity is less than a first threshold, the mobile phone connects to system B. When the mobile phone connects to system B, if the detected received electric field intensity is larger than a second threshold, the mobile phone connects to system A. The second threshold is set as larger than the first threshold, therefore, the frequency of switching between the communication systems is reduced.